

I. In the Claims

Please amend the affected claims as set forth below. By way of this amendment, Applicants introduce scrap glass into the claims as a further lightweight substance. Support for this limitation may be found in the specification at page 3, and so Applicants submit that the proposed amendment introduces no new matter.

1. (Currently Amended) A molded body from a lightweight substance formed from a lightweight aggregate and a sintering auxiliary, comprising:

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a sintered product obtained by mixing a lightweight substance of 80 to 93 wt% of a lightweight aggregate, selected from the group consisting of ~~perlites, expanded clay,~~ expanded glass, ~~vermiculites, and kieselguhr~~ scrap glass, and their mixtures with 20 to 7 wt% of an aqueous alkali silicate solution, where the lightweight aggregate is bonded in a network structure exclusively at the contact sites to obtain its essential properties, wherein the molded body has a dry bulk density and that dry bulk density lies in the range from 150 to 750 kg/m³.

2. (Cancelled.)

3. (Previously Presented) Molded body according to claim 1 further comprising that the molded body has a compressive strength and that the compressive strength lies in the range from 0.1 to 15 N/mm².

4. (Cancelled.)

5. (Original) Molded body according to claim 1 wherein the aqueous alkali silicate solution is alkali silicates.

6. (Currently Amended) Process for the production of a molded body according to claim 22 further comprising the steps of:

subjecting the lightweight ~~aggragate~~ aggregate and the aqueous alkali silicate solution to a shaping process after mixing and sintering at 400°C to 1000°C over a period from 0.1 h to 5 h.

7. (Previously Presented) Process according to Claim 6, wherein the molded body has a compressive strength in the range from 0.1 to 15 N/mm³ and at least one of the dry bulk density and the compressive strength is adjusted as a function of the lightweight aggregate and the process parameters during sintering.

8. (Previously Presented) Process according to Claim 6 further comprising the step of drying at 50°C to 95°C after shaping and before sintering.

9. (Previously Presented) Process according to claim 6 wherein the sintering process is conducted at 550 to 850°C.

10. (Previously Presented) Process according to claim 6 wherein sintering occurs during a period from 0.1 h to 0.5 h.

11. (Previously Presented) The molded body according to claim 1, wherein the molded body is used as insulation.

12. (Previously Presented) The molded body according to claim 1, wherein the molded body is used as construction material.

13. (Previously Presented) The molded body according to claim 1, wherein the molded body is used as furnace lining.

14. (Previously Presented) The molded body according to claim 1, wherein the molded body is used as a brick for formation of exhaust installation.

15. (Previously Presented) The molded body according to claim 1, wherein the molded body is used for technical sound protection in interior rooms.

16. (Previously Presented) The molded body according to claim 1, wherein the molded body is used for a sound-absorbing segment for fixed passageways of rail vehicles.

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17. (Previously Presented) The molded body according to claim 1, wherein the molded body is used as a fireproofing element.

18. (Previously Presented) The molded body according to claim 1, wherein the molded body is used as a sound absorber in exhaust lines.

19. Please cancel claim 19.

20. Please cancel claim 20.

21. Please cancel claim 21.

22. (Currently Amended) A process for the production of a molded body from a lightweight substance formed from a lightweight aggregate and a sintering auxiliary, the process comprising the steps of:

obtaining a sintered product by mixing a lightweight substance of 80 to 93 wt% of a lightweight aggregate selected from the group consisting of ~~perlites, expanded clay,~~ expanded glass, ~~vermiculites, and kieselguhr~~ scrap glass, and their mixtures with 20 to 7 wt% of an aqueous alkali silicate solution, where the lightweight aggregate is bonded in a network structure exclusively at the contact sites to obtain its essential properties, wherein the molded body has a dry bulk density and that dry bulk density lies in the range from 150 to 750 kg/m³.